

**AMENDMENTS TO THE CLAIMS**

**This listing of claims will replace all prior versions and listings of claims in the application:**

**LISTING OF CLAIMS:**

1. (currently amended): A display drafting apparatus comprising:  
means for selecting a device of a controller for use; and  
means for setting up display drafting information for said selected device comprising a display component, a display mode and a display function,  
wherein the means for selecting are used to select the a device before the means for setting up are used to set up the display drafting information, and  
wherein the device of the controller represents a signal or data stored in a memory of the controller.
  
2. (previously presented): The display drafting apparatus according to claim 1, further comprising means for saving only device selection information for the controller, selected by said device selecting means, wherein the device selection information can be saved, even if said selected device is a device for which the display drafting information is not set up.
  
3. (previously presented): The display drafting apparatus according to claim 1, additionally having a function of a control program schema generator for said controller therein, further comprising:

means for allowing the device selection information for said controller, selected by said device selecting means to be used with said control program schema generator.

4. (original) The display drafting apparatus according to claim 3, further comprising:

means for appending a comment to the device of said controller selected by said device selecting means, and

means for sharing the appended comment between said display drafting apparatus and said control program schema generator.

5. (previously presented): The display drafting apparatus according to claim 1, further comprising:

control program schema generating means for said controller, and

means for allowing the use of the device selection information for said controller, selected by said device selecting means, when a program schema is generated by said generating means.

6. (currently amended): A display drafting system comprising:

a display;

a programmable controller coordinating and controlling operation of a controlled system;

and

a display drafting apparatus comprising:

means for selecting a device of said controller for use,

means for setting up display drafting information for said selected device;  
a control program schema generating means; and  
means for allowing the use of the device selection information for said controller,  
selected by said device selecting means, when a program schema is generated by said  
generating means,  
wherein the means for selecting of the display drafting apparatus are used to select a  
device before the means for setting up of the display drafting apparatus are used to set up the  
display drafting information, and  
wherein the device of the controller represents a signal or data of the controlled system.

7. (previously presented): The display drafting system according to claim 6, wherein  
when the display drafting system is connected in series in the order of the display drafting  
apparatus, the display, and the controller via a communication line, the display drafting system  
further comprises means for transferring drafting data among drafting data created by the display  
drafting apparatus and control program data to the display and the control program data via the  
display to the controller.

8. (previously presented): The display drafting system according to claim 6, wherein  
when the display drafting system is connected in series in the order of the display drafting  
apparatus, the controller and the display via a communication line, the display drafting system  
further comprises means for transferring a control program data among a drafting data created by

the display drafting apparatus and the control program data to the controller and the drafting data via the controller to the display.

9. (currently amended): A display drafting method comprising:  
selecting a device of a controller for use; and  
setting up a display drafting information for said selected device after said device is selected,

wherein the device represents a signal or data involved in an operation of a system being controlled by the controller.

10. (previously presented): The display drafting method according to claim 9, wherein said selecting the device further comprises selecting a device symbol and selecting a device number.

11. (previously presented): The display drafting method according to claim 9, wherein said setting up the display drafting information further comprises setting up a display component, display mode and display function.

12. (previously presented): The display drafting method according to claim 10, further comprising changing at least one of said device symbol and said device number after setting up part of said display drafting information.

13. (currently amended): The display drafting method according to claim 9, further comprising interrupting interrupting said setting up the display drafting information to save data of said display drafting information.

14. (currently amended): The display drafting method according to claim 9, further comprising interrupting interrupting said selecting device of the controller to save data of a device selection information.

15. (currently amended): The display drafting method according to claim 9, wherein said selected device is used in display drafting and in a design of generating a control program for said controller, the design of a control program is performed separately from the display drafting.

16. (new): The display drafting method according to claim 15, wherein the control program for the controller is designed using a ladder diagram, and wherein the selected device is stored in a shared memory accessible to both the control program and the display drafting program.

17. (new): The display drafting apparatus according to claim 1, wherein:  
the device represents one of an input signal, an output signal, an auxiliary signal, a count value, a timer value, and a numerical data of a controlled system,  
the programmable controller is configured to control the operation of the controlled system, and

the display drafting information informs an operator monitoring the controlled system at least of a type of the signal or data and state of the signal or value of the data.

18. (new): The display drafting apparatus according to claim 9, wherein the device represents one of an input signal, an output signal, an auxiliary signal, a count value, a timer value, and a numerical data of a controlled system, the programmable controller is configured to control the operation of the controlled system.

19. (new): The display drafting apparatus according to claim 18, wherein the controlled system is a production line.